

GWN70xx Wireless Router Firmware Release Notes

IMPORTANT UPGRADING NOTE

1. **Warning:**

Downgrading from firmware 1.0.9.x or higher version to 1.0.7.x or lower version will cause device to perform factory reset automatically. All device configurations will be reset to factory default settings after downgrading.

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FIRMWARE FILE DOWNLOAD

Individual firmware files are available for downloading at URL below:

<https://www.grandstream.com/support/firmware>

FIRMWARE VERSION 1.0.9.37

PRODUCT NAME

GWN7062 / GWN7052 / GWN7052F

DATE

4/1/2024

FIRMWARE FILE INFORMATION

- GWN7062 Firmware file name: gwn7062fw.bin
MD5 checksum: ef6754baaedef7c4eb66ecf3abacee2d
- GWN7052 Firmware file name: gwn7052fw.bin
MD5 checksum: 3eaed1619354f3c61f22bb8faf71ee1
- GWN7052F Firmware file name: gwn7052ffw.bin
MD5 checksum: 93f94571e4a5bdd076efb8acf289de40

CHANGES/ENHANCEMENT

- Internal bug fixes

FIRMWARE VERSION 1.0.9.34

PRODUCT NAME

GWN7062 / GWN7052 / GWN7052F

DATE

1/12/2024

FIRMWARE FILE INFORMATION

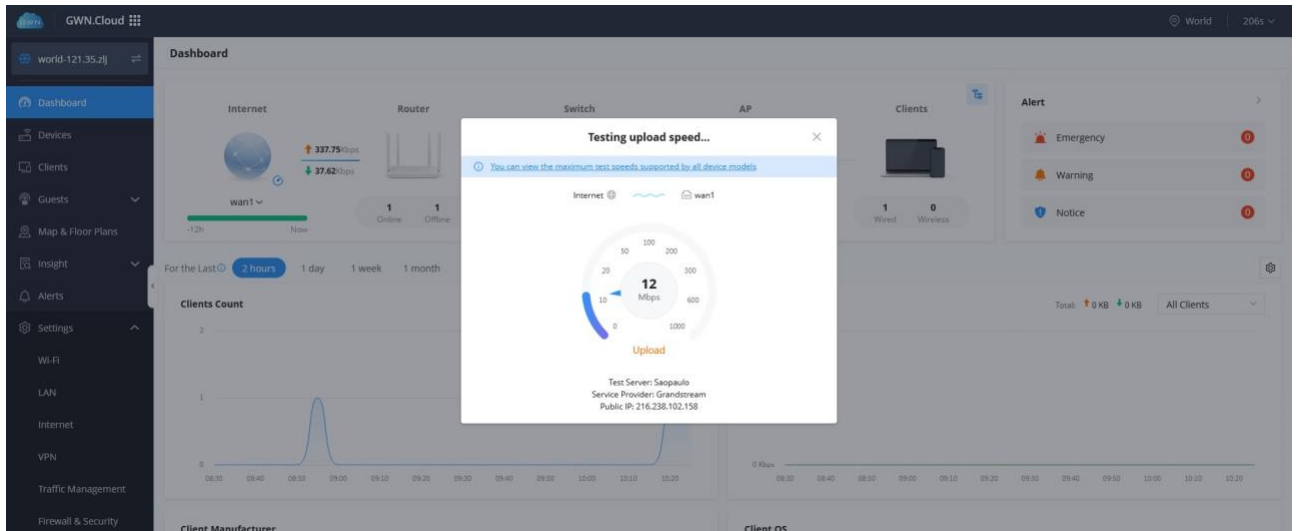
- GWN7062 Firmware file name: gwn7062fw.bin
MD5 checksum: 585ee63c4a921c8663c7fa381c5f745a
- GWN7052 Firmware file name: gwn7052fw.bin
MD5 checksum: 408aec3afbcee3a6591ef75996470da8
- GWN7052F Firmware file name: gwn7052ffw.bin
MD5 checksum: 86cab22f806374919fea40f9cc1439bc

CHANGES/ENHANCEMENT

- Added the new feature of **Speed test**
- Added the new feature of **ISP default configuration**
- Internal bug fixes

NEW FEATURE OVERVIEW

- **Speed test**



- **ISP default configuration**

With the provided gs configuration tool, administrators can provision an ISP default configuration to the router. After provisioning, by performing factory reset, the device will restore to the customized default configuration other than the original factory default.

FIRMWARE VERSION 1.0.9.15

PRODUCT NAME

GWN7062 / GWN7052 / GWN7052F

DATE

12/15/2023

FIRMWARE FILE INFORMATION

- GWN7062 Firmware file name: gwn7062fw.bin
MD5 checksum: 02241fb65514c394e66a103a5e5b8050
- GWN7052 Firmware file name: gwn7052fw.bin
MD5 checksum: 8dee45da1dcc7e555dba97244a47f40c
- GWN7052F Firmware file name: gwn7052ffw.bin
MD5 checksum: e7ab0fd20ad80e31834ca67eaa1e9f68

CHANGES/ENHANCEMENT

- Fixed an OpenVPN certificate issue from upgrading unit from 1.0.7.x to 1.0.9.9(10).
- Internal bug fixes.

FIRMWARE VERSION 1.0.9.10 (1.0.9.9)

PRODUCT NAME

GWN7062 / GWN7052 / GWN7052F

DATE

10/23/2023

FIRMWARE FILE INFORMATION

- GWN7062(1.0.9.10) Firmware file name: gwn7062fw.bin
MD5 checksum: 5e5ca5e7542851b291e6c9e6ae0712ba
- GWN7052(1.0.9.10) Firmware file name: gwn7052fw.bin
MD5 checksum: 1bc8dbef492c0587988a034f407dd268
- GWN7052F(1.0.9.9) Firmware file name: gwn7052ffw.bin
MD5 checksum: 227d4a06871a2c3be417eb228f973f8a

CHANGES/ENHANCEMENT

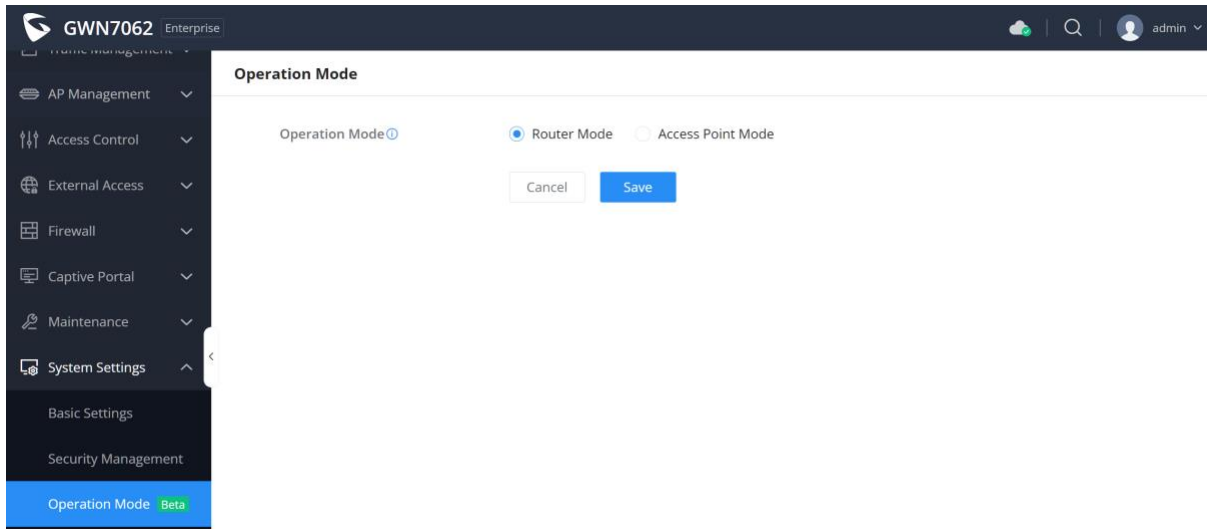
- Changed to new GWN router UI
- Added new feature of **AP Mode**
- Added new feature of **DoS Defense**
- Added new feature of **Spoofing Defense**
- Added new feature of **IGMP**
- Added new feature of Policy Routing: **ICMP** and **Schedule**
- Added new feature of **HostName** access
- Added new feature of **USB: 4G Dongle**(GWN7062 only)
- Added new feature of DHCP Option Optimization & **Option 43 Service List**
- Added new feature of **Alert**
- Added new feature of **Triple Play**

- Added new feature of **Bandwidth Limit**
- Added new feature of **Vouchers**
- Added new feature of **WireGuard®**
- Added new feature of **mDNS Bonjour**
- Added new feature of **Static IP binding by client ID**
- Added new feature of **TR069**
- Added new feature of **PPSK**
- Added support of 2.4G & 5G custom channel
- Added support of discovering APs across VLANs
- Added support of GWN Menu
- Added support of more Cloud Features: Portal, VPN, Policy Routing, Modifying web Password, Certification management, WAN Health, WAN VLAN Priority, Event: Client Authentication Information, Global Blacklist
- Optimized feature as enabling CH12 and CH13 in the 2.4G band for New Zealand

NEW FEATURE OVERVIEW

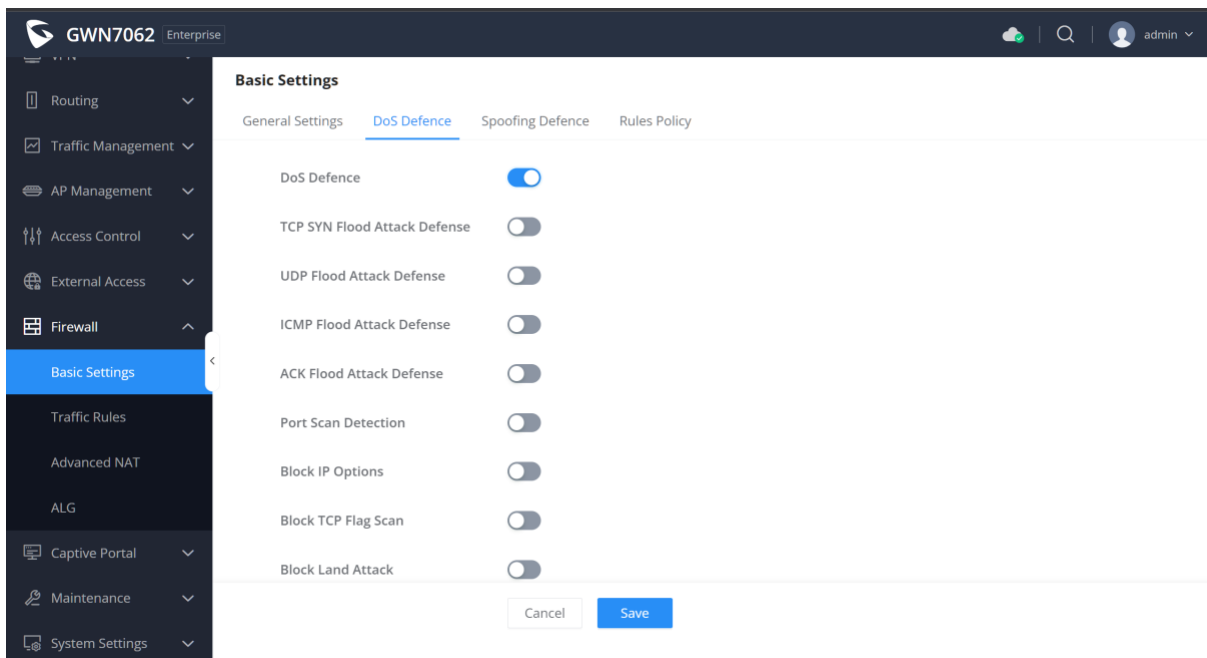
- **AP Mode**

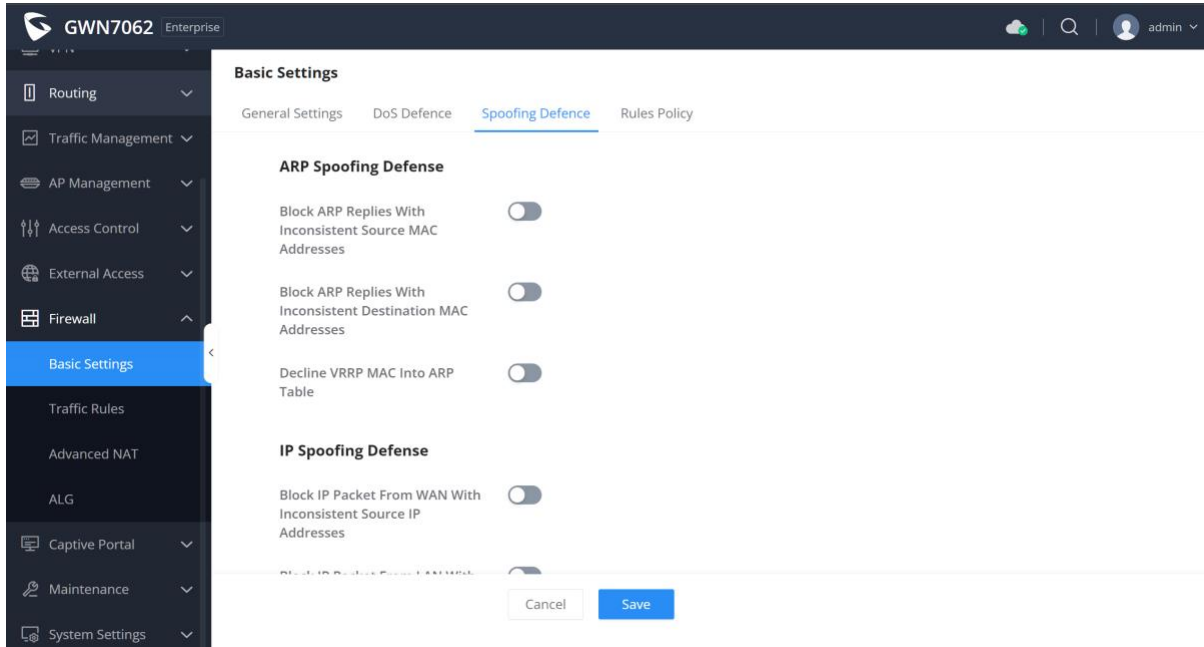
Now GWN wireless router can change its Operation Mode between **Router** vs **Access Point**. The default is Router mode. Access Point mode will allow router to become a MESH RE-AP, in order to form MESH with other GWN CAP or wireless router.



- **Firewall - DoS Defense & Spoofing Defense**

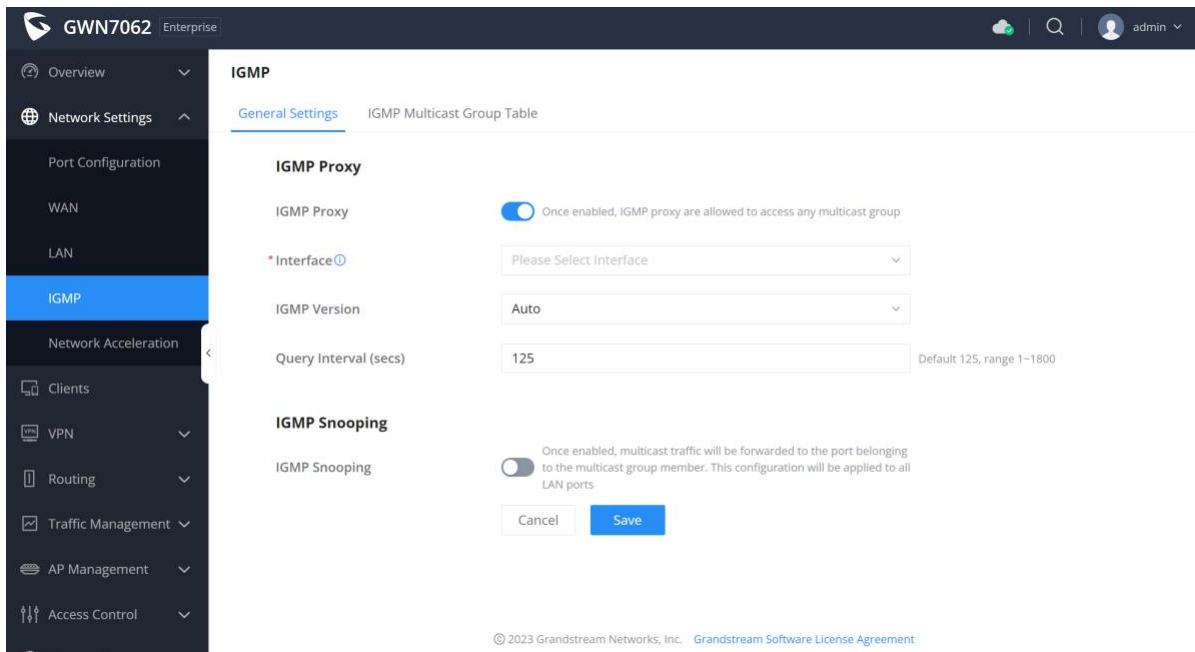
Added more firewall defense features





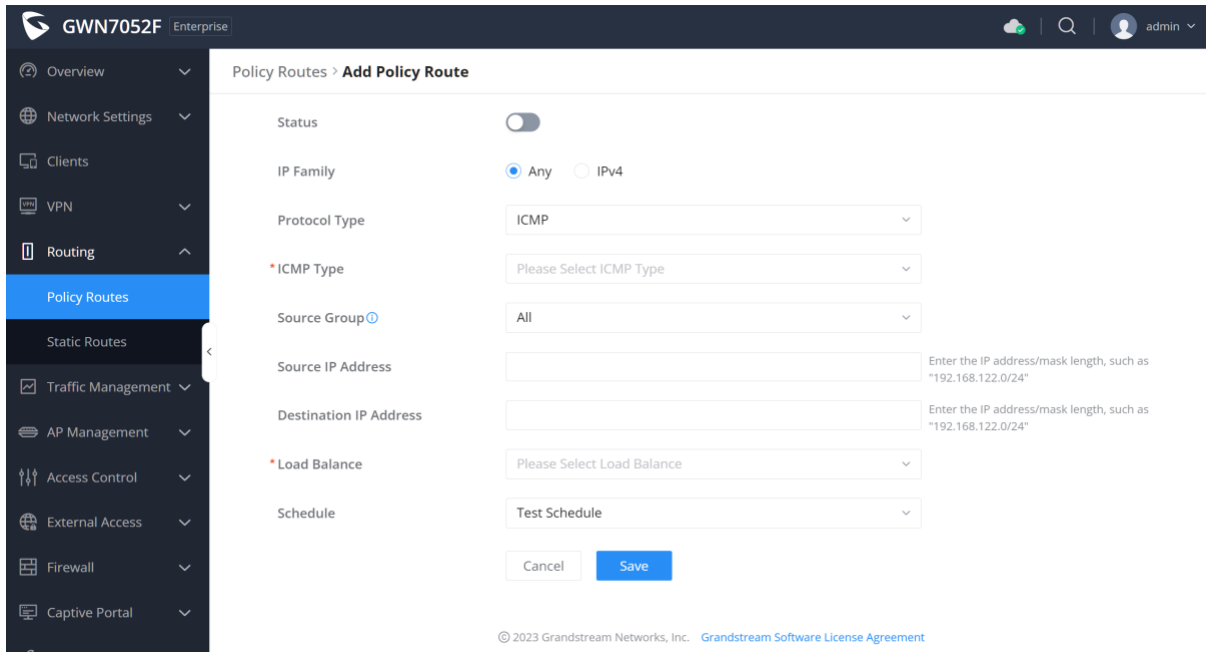
- **IGMP**

Support IGMP proxy and IGMP snooping settings.



- **Policy Routing: ICMP & Schedule**

Added **ICMP** to protocol type and added **Schedule** to manage policy route.



The screenshot shows the 'Policy Routes > Add Policy Route' configuration page. The left sidebar is expanded to 'Policy Routes'. The main configuration area includes the following fields:

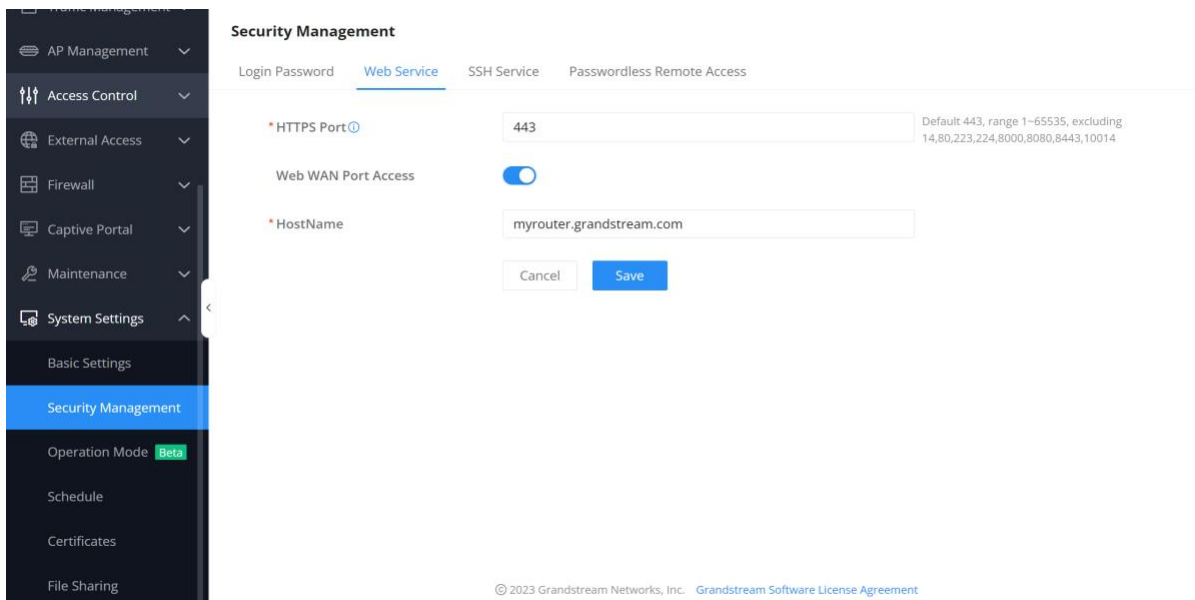
- Status:
- IP Family: Any IPv4
- Protocol Type: ICMP
- *ICMP Type: Please Select ICMP Type
- Source Group: All
- Source IP Address: (Help: Enter the IP address/mask length, such as "192.168.122.0/24")
- Destination IP Address: (Help: Enter the IP address/mask length, such as "192.168.122.0/24")
- *Load Balance: Please Select Load Balance
- Schedule: Test Schedule

Buttons: Cancel, Save

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- **HostName Access**

This will allow local users to use configured hostname to access router web portal.



The screenshot shows the 'Security Management > Web Service' configuration page. The left sidebar is expanded to 'Security Management'. The main configuration area includes the following fields:

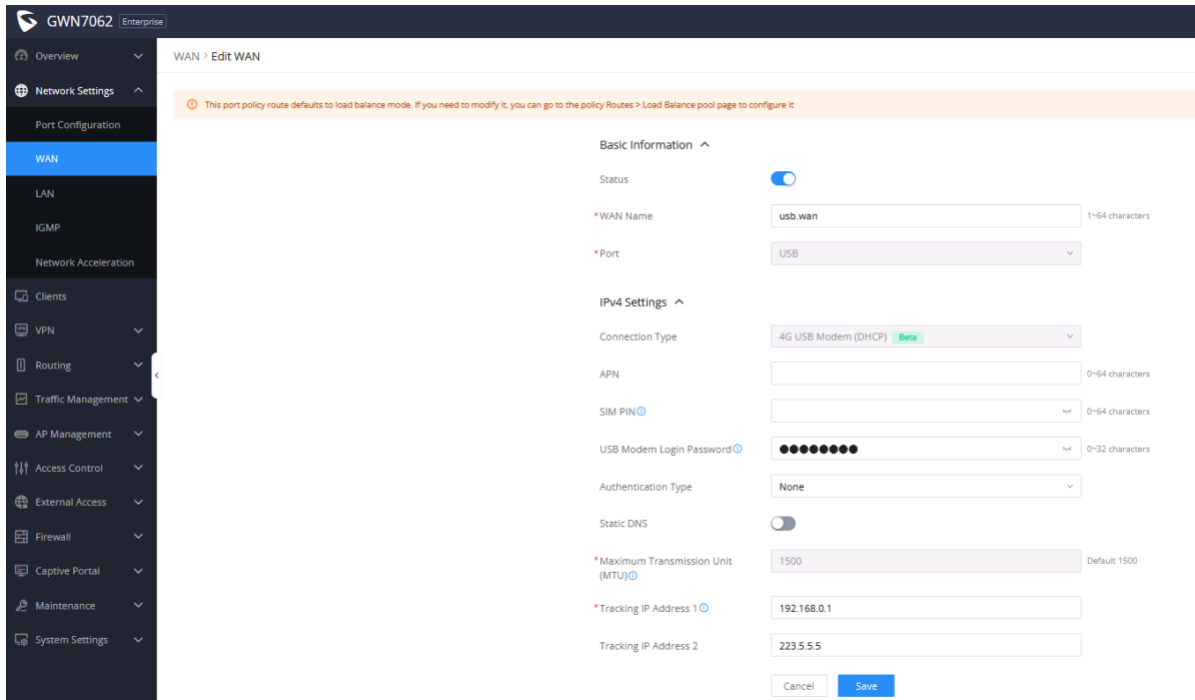
- Login Password:
- Web Service:
- SSH Service:
- Passwordless Remote Access:
- *HTTPS Port: 443 (Help: Default 443, range 1-65535, excluding 14,80,223,224,8000,8080,8443,10014)
- Web WAN Port Access:
- *HostName: myrouter.grandstream.com

Buttons: Cancel, Save

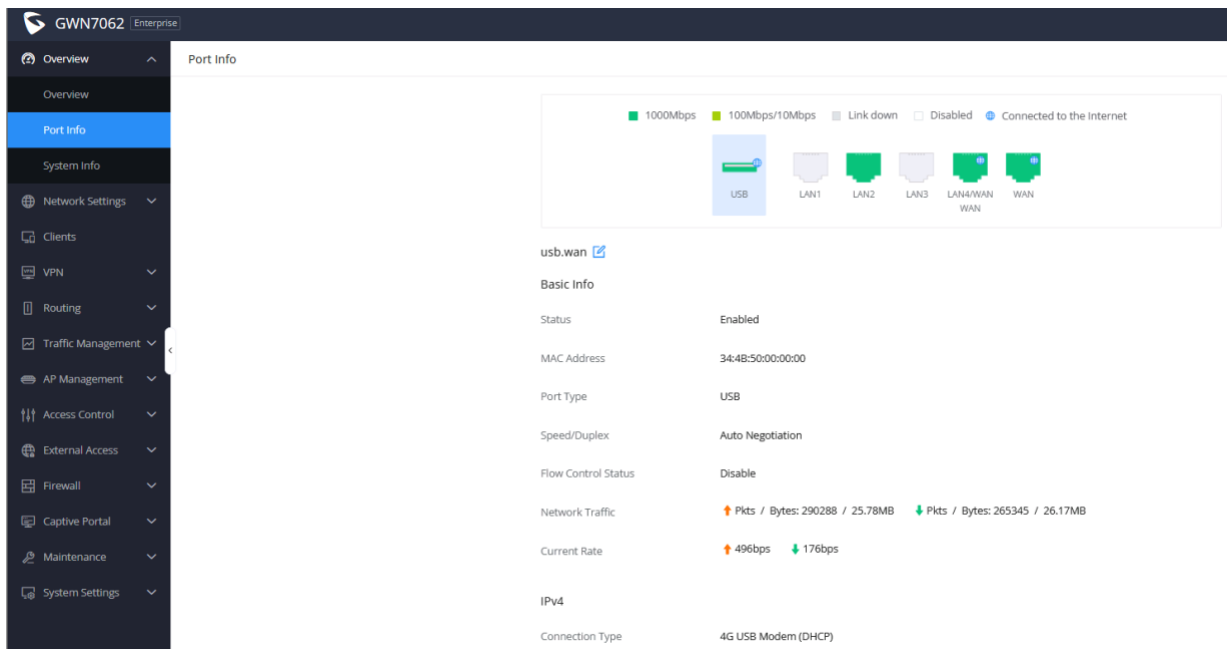
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- **USB: 4G Dongle**

After insert 4G USB dongle, user will be able to see the 4G USB modem option as below:



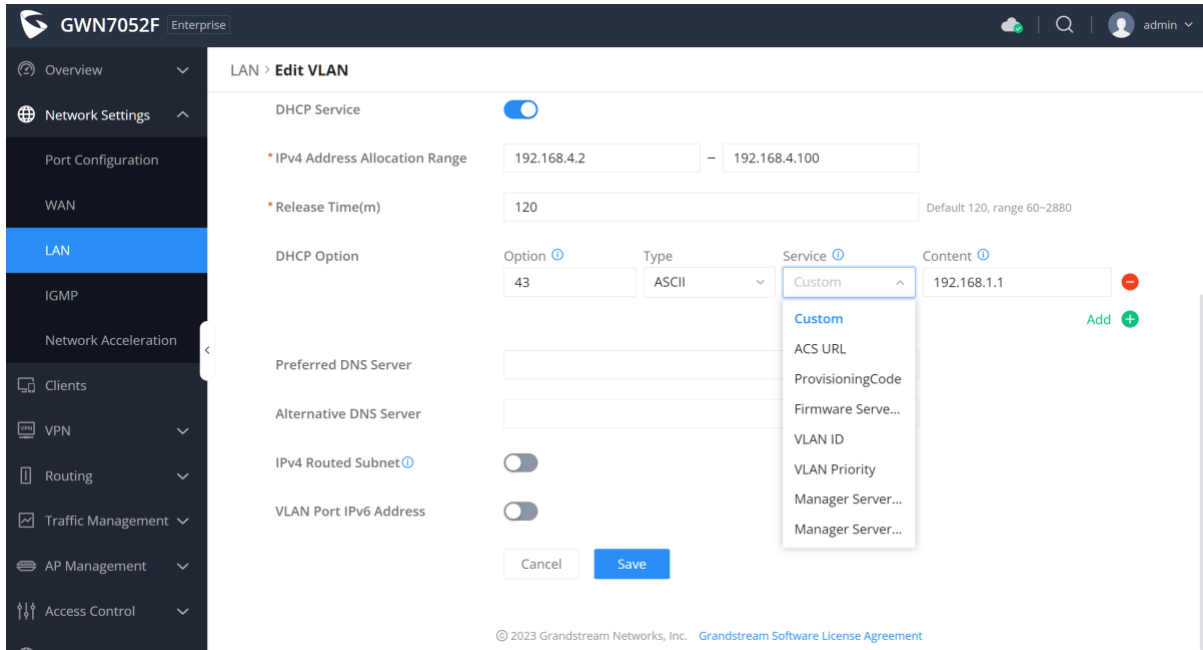
The screenshot shows the WAN configuration interface for a GWN7062 Enterprise device. The left sidebar contains navigation options: Overview, Network Settings, Port Configuration, LAN, IGMP, Network Acceleration, Clients, VPN, Routing, Traffic Management, AP Management, Access Control, External Access, Firewall, Captive Portal, Maintenance, and System Settings. The main content area is titled 'WAN > Edit WAN' and includes a warning message: 'This port policy route defaults to load balance mode. If you need to modify it, you can go to the policy Routes > Load Balance pool page to configure it'. The configuration is divided into sections: Basic Information (Status: Enabled, WAN Name: usb.wan, Port: USB) and IPv4 Settings (Connection Type: 4G USB Modem (DHCP), APN, SIM PIN, USB Modem Login Password, Authentication Type: None, Static DNS: Disabled, Maximum Transmission Unit (MTU): 1500, Tracking IP Address 1: 192.168.0.1, Tracking IP Address 2: 223.5.5.5). Buttons for 'Cancel' and 'Save' are at the bottom.



The screenshot shows the 'Port Info' page for the GWN7062 Enterprise device. The left sidebar is the same as in the previous screenshot. The main content area shows a 'Port Info' section with a legend for port status: 1000Mbps (green), 100Mbps/10Mbps (yellow), Link down (grey), Disabled (white), and Connected to the Internet (blue). Below the legend is a diagram of the device's ports: USB (blue), LAN1 (grey), LAN2 (green), LAN3 (grey), LAN4/WAN (green), and WAN (green). Below the diagram is a table for the 'usb.wan' port:

usb.wan	
Basic Info	
Status	Enabled
MAC Address	34:4B:50:00:00:00
Port Type	USB
Speed/Duplex	Auto Negotiation
Flow Control Status	Disable
Network Traffic	↑ Pkts / Bytes: 290288 / 25.78MB ↓ Pkts / Bytes: 265345 / 26.17MB
Current Rate	↑ 496bps ↓ 176bps
IPv4	
Connection Type	4G USB Modem (DHCP)

- **DHCP Option Optimization & Option 43 Service List**

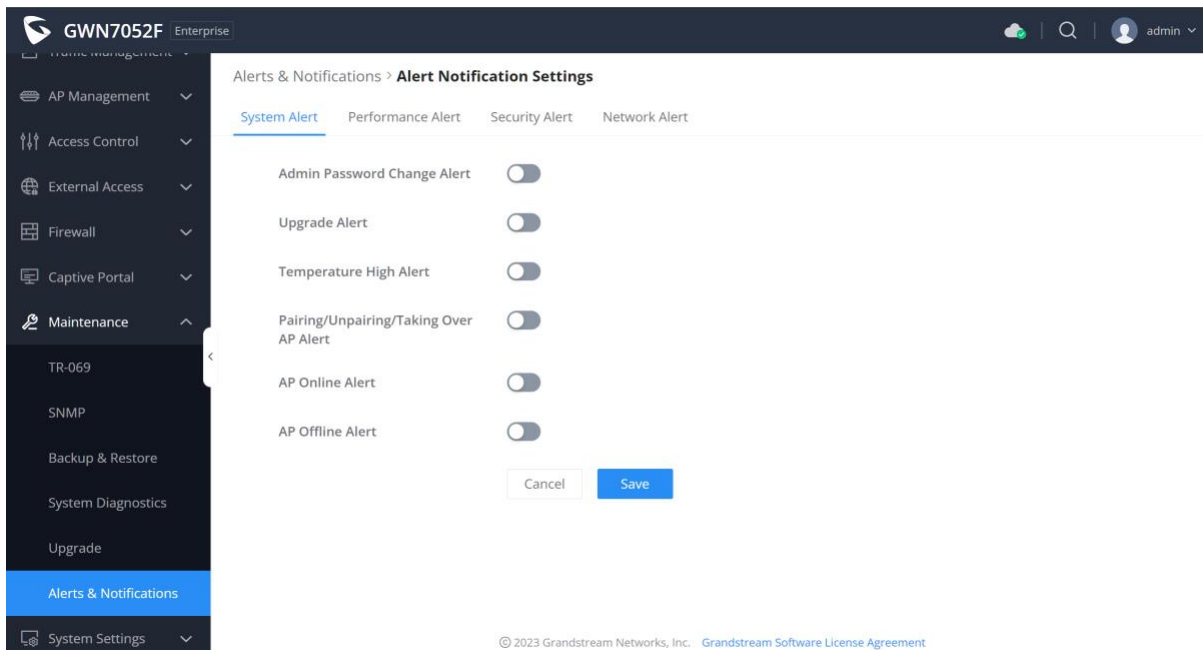


The screenshot shows the 'LAN > Edit VLAN' configuration page. The DHCP Service is enabled. The IPv4 Address Allocation Range is set to 192.168.4.2 - 192.168.4.100, and the Release Time is 120m. A DHCP Option table is visible with the following details:

Option	Type	Service	Content
43	ASCII	Custom	192.168.1.1

A dropdown menu for the 'Service' column is open, showing a list of options: Custom, ACS URL, ProvisioningCode, Firmware Serve..., VLAN ID, VLAN Priority, Manager Server..., and Manager Server... The 'Add' button is visible next to the table.

- **Alert**



The screenshot shows the 'Alerts & Notifications > Alert Notification Settings' page. The 'System Alert' tab is selected. The following alerts are listed with their respective status (all are currently disabled):

- Admin Password Change Alert
- Upgrade Alert
- Temperature High Alert
- Pairing/Unpairing/Taking Over AP Alert
- AP Online Alert
- AP Offline Alert

'Cancel' and 'Save' buttons are located at the bottom of the settings area.

- **Triple Play**

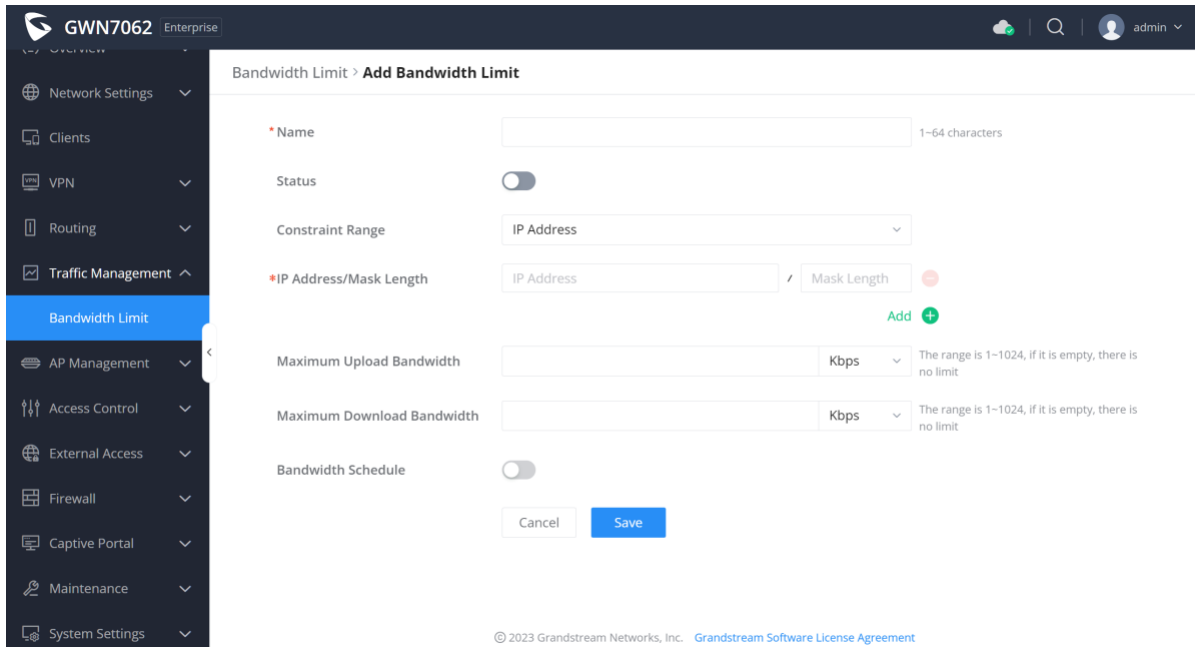
Configuration is available at Network Settings → WAN → Edit WAN

Bridge Mode

*VLAN Tag ID/Port/Priority ⓘ

VLAN Tag ID	Port ⓘ	Priority ⓘ	
<input type="text" value="Enter VLAN Tag ID"/>	<input type="text" value="Choose Port"/>	<input type="text" value="0"/>	<input type="button" value="−"/>
			<input type="button" value="Add +"/>

- **Bandwidth Limit**



GWN7062 Enterprise | admin

Bandwidth Limit > Add Bandwidth Limit

*Name 1-64 characters

Status

Constraint Range

*IP Address/Mask Length /

Maximum Upload Bandwidth Kbps

Maximum Download Bandwidth Kbps

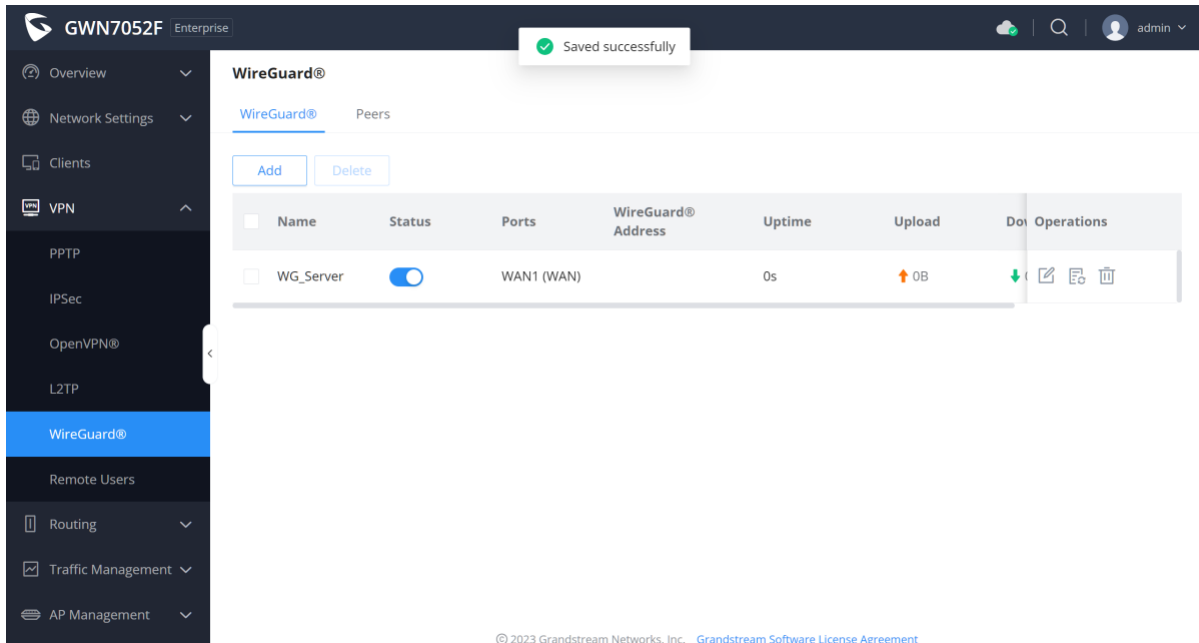
Bandwidth Schedule

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- **Vouchers**

Configuration is available at Captive Portal → Vouchers

- **WireGuard®**



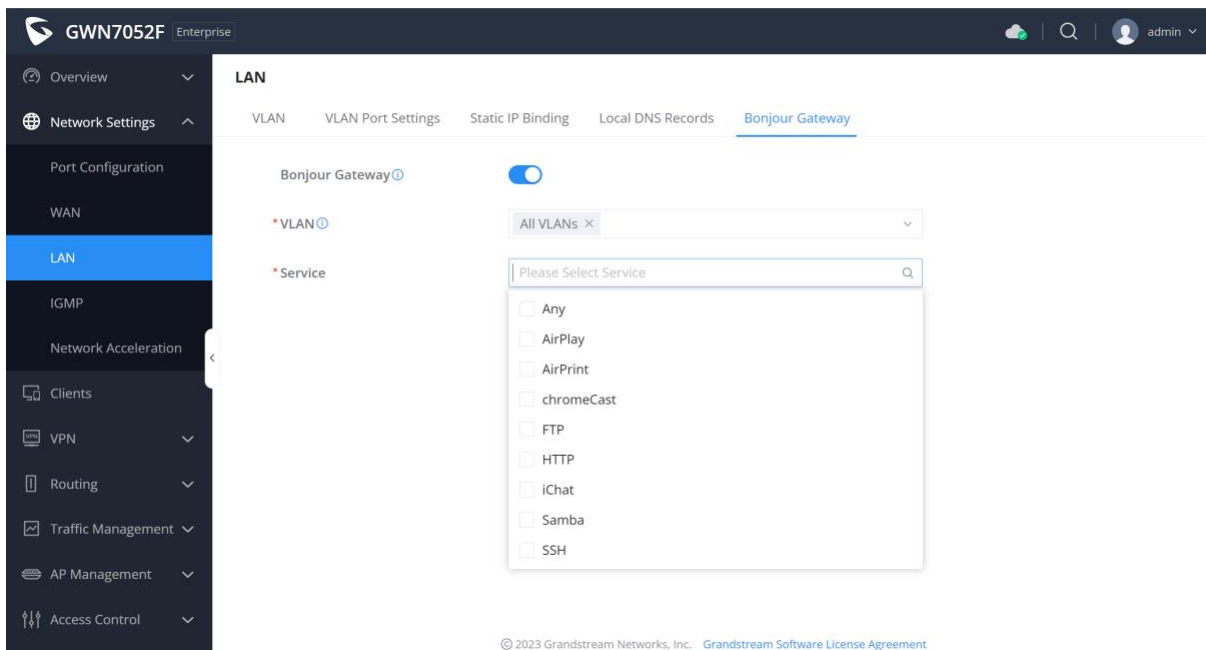
The screenshot shows the Grandstream management interface for device GWN7052F. The left sidebar contains navigation options: Overview, Network Settings, Clients, VPN, PPTP, IPsec, OpenVPN®, L2TP, WireGuard®, Remote Users, Routing, Traffic Management, and AP Management. The main content area is titled 'WireGuard®' and shows a 'Peers' section with a table of active peers.

WireGuard® Peers

Name	Status	Ports	WireGuard® Address	Uptime	Upload	Download	Operations
WG_Server	<input checked="" type="checkbox"/>	WAN1 (WAN)		0s	↑ 0B	↓	[Edit] [Refresh] [Delete]

A notification at the top center states 'Saved successfully'. The footer contains the copyright notice: © 2023 Grandstream Networks, Inc. Grandstream Software License Agreement.

- **mDNS Bonjour**



The screenshot shows the Grandstream management interface for device GWN7052F, specifically the 'LAN' configuration page. The left sidebar is similar to the previous screenshot, with 'LAN' selected. The main content area is titled 'LAN' and includes sub-sections: VLAN, VLAN Port Settings, Static IP Binding, Local DNS Records, and Bonjour Gateway.

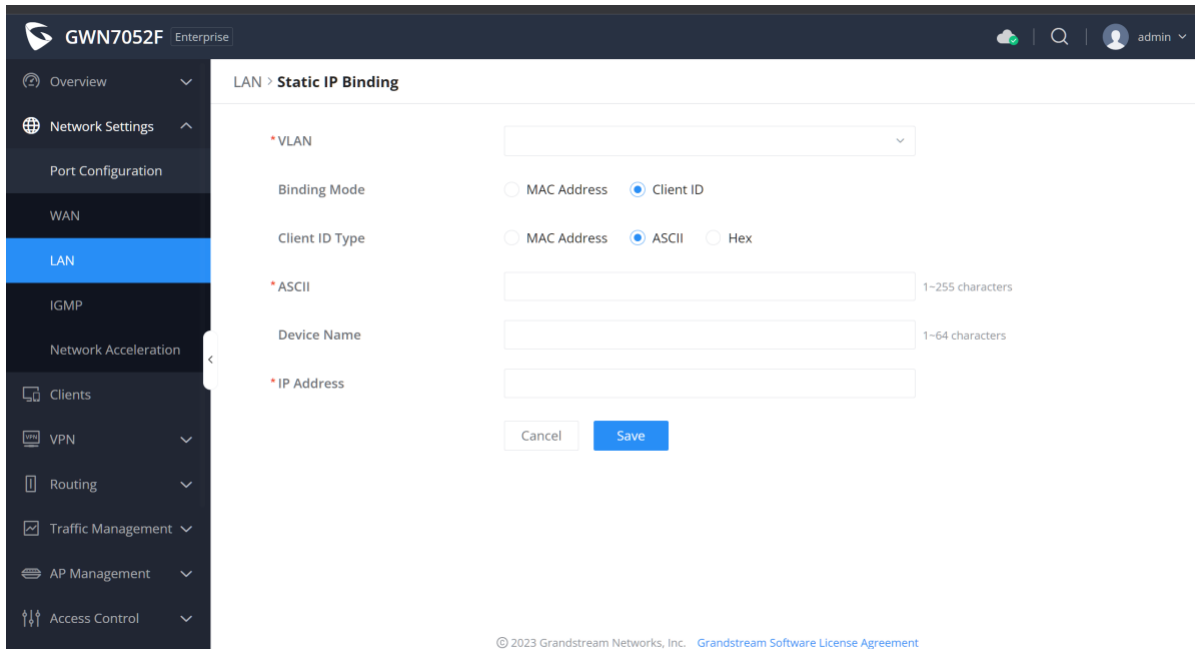
LAN Bonjour Gateway

The 'Bonjour Gateway' toggle is turned on. Below it, the 'VLAN' dropdown is set to 'All VLANs'. The 'Service' dropdown is open, showing a list of services with checkboxes:

- Any
- AirPlay
- AirPrint
- chromeCast
- FTP
- HTTP
- iChat
- Samba
- SSH

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- **Static IP binding by client ID**



LAN > Static IP Binding

*VLAN

Binding Mode MAC Address Client ID

Client ID Type MAC Address ASCII Hex

*ASCII 1-255 characters

Device Name 1-64 characters

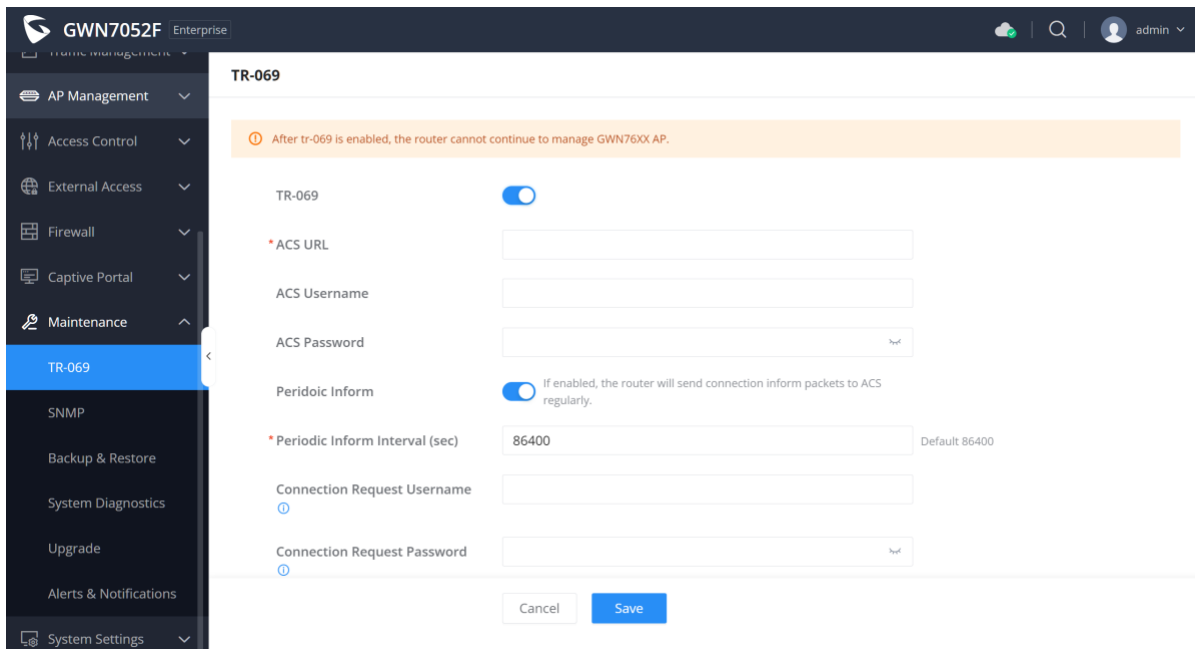
*IP Address

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- **PPSK**

Configuration is available at AP Management → PPSK

- **TR069**



TR-069

ⓘ After tr-069 is enabled, the router cannot continue to manage GWN76XX AP.

TR-069

*ACS URL

ACS Username

ACS Password

Periodic Inform If enabled, the router will send connection inform packets to ACS regularly.

*Periodic Inform Interval (sec) Default: 86400

Connection Request Username

Connection Request Password

FIRMWARE VERSION 1.0.7.2

PRODUCT NAME

GWN7062 / GWN7052 / GWN7052F

DATE

6/19/2023

FIRMWARE FILE INFORMATION

- GWN7062 Firmware file name: gwn7062fw.bin
MD5 checksum: 7d9ddc8d92370c3b8db4f9e4deb3aa19
- GWN7052 Firmware file name: gwn7052fw.bin
MD5 checksum: 7a097966e45cbc70a6e4e3a215cf6c8c
- GWN7052F Firmware file name: gwn7052ffw.bin
MD5 checksum: 310f5da6b2a808e80b46b1649dc24eec

CHANGES/ENHANCEMENT

- Fixed an issue that causes GWN7052F 5G radio low bandwidth when acceleration is disabled.
- Fixed an issue that causes remote access from GWN.Cloud fails
- Fixed an issue that causes network loop in multiple VLAN configurations
- Fixed an issue that client speed limit does not take effect after restoring the router configuration
- Fixed an issue that DHCP option Hex format does not take effect
- Fixed an issue that DHCP option ASCII format does not take effect if configured without quote
- Fixed an issue that causes wireless client downlink real speed and rate display mismatch
- Fixed an issue that changing single band to dual on GWN.Cloud leads to missing SSID description
- Fixed an issue that dhcp option type display "1" after upgrade firmware from 1.0.4.x to 1.0.7.1
- Fixed a display issue of network acceleration's mouseover tooltip
- Other bug fixes

FIRMWARE VERSION 1.0.7.1

PRODUCT NAME

GWN7062 / GWN7052 / GWN7052F

DATE

5/22/2023

FIRMWARE FILE INFORMATION

- GWN7062 Firmware file name: gwn7062fw.bin
MD5 checksum: 7e87f50b4826866ded05b585deabc6d8
- GWN7052 Firmware file name: gwn7052fw.bin
MD5 checksum: 4234f6ce7eeb2d6cddef5f36ded6b420
- GWN7052F Firmware file name: gwn7052ffw.bin
MD5 checksum: cb0d91b8532574a98d078f154e120bfe

CHANGES/ENHANCEMENT

- Added new feature of GWN.Manager layer 2 discovery
- Added new feature of importing configurations files across different devices of the same model
- Added support of Cloud/Manager connection detection
- Added support of locking country code through Grandstream GAPS
- Optimized the DHCP option UI configuration format
- Fixed an issue of out of memory causing restart when hardware acceleration is enabled in GWN7062
- Fixed some configuration compatibility issues for cloud management
- Fixed an issue that syslog cannot be downloaded via gwnmenu
- Fixed an internal crash issue
- Changed the UI restriction to allow the gateway address to be within the DHCP pool
- Other bug fixes

FIRMWARE VERSION 1.0.5.44

PRODUCT NAME

GWN7062 / GWN7052

DATE

3/6/2023

FIRMWARE FILE INFORMATION

- GWN7062 Firmware file name: gwn7062fw.bin
MD5 checksum: e79b587ac220c634757f0426ed1e9845
- GWN7052 Firmware file name: gwn7052fw.bin
MD5 checksum: ec408284e28d30e3ba0a2124069da102

CHANGES/ENHANCEMENT

- Added support of Mesh as CAP feature when managed by GWN.Cloud/GWN.Manager
- Internal bug fixes

FIRMWARE VERSION 1.0.5.38

PRODUCT NAME

GWN7062 / GWN7052

DATE

1/10/2023

FIRMWARE FILE INFORMATION

- GWN7062 Firmware file name: gwn7062fw.bin
MD5 checksum: 86167cde0df080a43ba7021968489546
- GWN7052 Firmware file name: gwn7052fw.bin
MD5 checksum: b4b6d9232af999bad6583d5d6137e93c

CHANGES/ENHANCEMENT

- Internal bug fixes

FIRMWARE VERSION 1.0.5.34

PRODUCT NAME

GWN7062 / GWN7052

DATE

12/22/2022

FIRMWARE FILE INFORMATION

- GWN7062 Firmware file name: gwn7062fw.bin
MD5 checksum: 4c93665763caca56c8c3e11af83e6995
- GWN7052 Firmware file name: gwn7052fw.bin
MD5 checksum: a733d3e54646b1c298b8e4f23f41ad66

CHANGES/ENHANCEMENT

- Added support for new GWN Cloud 1.1.23.28
- Added support third layer discovery for GWN Manager
- Optimized the Alert system
- Internal bug fixes

FIRMWARE VERSION 1.0.5.12

PRODUCT NAME

GWN7062 / GWN7052

DATE

10/27/2022

FIRMWARE FILE INFORMATION

- GWN7062 Firmware file name: gwn7062fw.bin
MD5 checksum: 18089092e937345d91ae0d38b187ed45
- GWN7052 Firmware file name: gwn7052fw.bin
MD5 checksum: 3ee377375658f2f2db627e6c37ca6a7a

CHANGES/ENHANCEMENT

- Fixed an issue that Top Clients data may show errors in overview page
- Fixed an issue that client cannot authenticate with the external portal from GWN AP under GWN router
- Fixed an issue that video stream does not present buffering on client from MESH RE AP.
- Fixed an issue that WAN2 web access may show 404.
- Fixed an issue that causes router to crash in long term throughput test.
- Some internal fixes.

FIRMWARE VERSION 1.0.5.9

PRODUCT NAME

GWN7062 / GWN7052

DATE

10/12/2022

FIRMWARE FILE INFORMATION

- GWN7062 Firmware file name: gwn7062fw.bin
MD5 checksum: 0125f142adf1d356982a0420ca42745a
- GWN7052 Firmware file name: gwn7052fw.bin
MD5 checksum: 7d95d0b59ee4ffd0a3913bd4d553a24b

CHANGES/ENHANCEMENT

- Fixed an issue that GWN Router shows offline from Cloud then Internet access is normal.
- Fixed an issue of wrong IPv6 address lifetime.
- Fixed an issue of IPv6 settings provisioning.
- Fixed an issue that core file cannot be downloaded if remote access via GWN Cloud.
- Fixed an issue that the 16th dual-band SSID cannot be changed to 5G only.
- Fixed some issues of AP settings provisioning.
- Fixed an issue that guest page authentication type is incorrect under Captive Portal.
- Changed the web setting to allow port changes even when WAN port web access is closed.
- Some other internal fixes.

[GWN7062] FIRMWARE VERSION 1.0.5.6

PRODUCT NAME

GWN7062

DATE

9/8/2022

FIRMWARE FILE INFORMATION

- GWN7062 Firmware file name: gwn7062fw.bin
MD5 checksum: cdfc394a060e04d34b384ad9e86a6e58

CHANGES/ENHANCEMENT

- This is the first release of GWN7062
- Note: GWN Cloud support for GWN7062 is only available in form of web tunnel.in current firmware. Full GWN Cloud support will be released in later version.

[GWN7052] FIRMWARE VERSION 1.0.5.5

PRODUCT NAME

GWN7052

DATE

9/8/2022

FIRMWARE FILE INFORMATION

- GWN7052 Firmware file name: gwn7052fw.bin
MD5 checksum: fe02e415e9e6ddb024a3ec5377bacf82

CHANGES/ENHANCEMENT

- This is the first release of GWN7052
- Note: GWN Cloud support for GWN7052 is only available in form of web tunnel.in current firmware. Full GWN Cloud support will be released in later version.